

## ICU Driver

Data types table:

Name:	enu_ICU_ERROR
Type	Enumerations
Range:	ICU_OK = 0 ICU_NOK = 1 ICU_NREADY = 2
Descriptions:	used to return the state of ICU functions

API design table:

Name:	ICU_u8SingnalOnTime	
Arguments:	Input:	Name: None Type: None
	Output	Name: pu32_OnTime Type: pointer to unsigned integer
Return:	enu_ICU_ERROR	
Descriptions	It calculates the period which signal is HIGH using timer01 in microseconds If return == ICU_OK it means user pass valid arguments, and you can read its output If return == ICU_NOK It means user pass non valid argument If return == ICU_NREADY It means user passes valid argument, but Output is not ready to be read	

API design table:

Name:	ICU_enulnit	
Arguments:	Input:	Name: None Type: None
	Output	Name: None Type: None
Return:	enu_ICU_ERROR	
Descriptions	Used to initialize ICU driver it initializes TIMER01 driver and External interrupt driver. If return == ICU_OK It means the initialization done.	

API design table: